

Amendments to the Claims

This listing of claim will replace all prior versions and listings of claim in the application.

1. (Currently Amended) A[n] system for synchronizing data between a first system and a second system, comprising:

a first sync engine on the first system interfacing with data on the first system to provide difference information in a difference transaction;

a data store coupled to the network and in communication with the first and second systems;
and

a second sync engine on the second system coupled to receive the difference information in the difference transaction from the data store via the network, and interfacing with data on the second system to update said data on the second system with said difference information;

wherein each said sync engine comprises a data interface, a copy of a previous state of said data, and a difference transaction generator.

2. The apparatus of claim 1 wherein the first system and second system are coupled to the server via a private network.

3. The apparatus of claim 1 wherein the first system and second system are coupled to the server via an Internet connection.

4. The apparatus of claim 1 wherein the difference information is transmitted to the data store by the first sync engine and received from the data store from the second sync engine.

5. The apparatus of claim 4 wherein the difference information is transmitted to the data store at a first point in time, and received from the data store at a second, subsequent point in time.

6. The apparatus of claim 1 wherein said second sync engine interfaces with said data on the second system to provide second difference information to the data store.

7. The apparatus of claim 6 wherein the first sync engine couples to the data store to retrieve the second difference information and interfaces with the data on the first system to update said data on the first system with said second difference information.

8. The apparatus of claim 1 further including a management server coupled to the network and in communication with the first sync engine, the second sync engine and the data store.

B1 9. The apparatus of claim 8 wherein said management server authorizes access of difference information on the data store by the first and second sync engines.

10. The apparatus of claim 8 wherein said management server locks access to difference information on the data store during communication with the first and the second sync engines.

11. The apparatus of claim 1 further including a first device, coupled to the first system via the network, providing said data to the first system.

12. The apparatus of claim 11 wherein the first system is a sync server.

13. The apparatus of claim 11 wherein said data comprises changes to a previous state of the data, and said difference information comprises said changes in an encoded, universal format.

[14. (Cancelled)

14 15. The apparatus of claim 1 wherein said data on said first system comprises application data having a plurality of application specific formats, and said difference information is provided for each of said formats in a universal format to said data store.

15 16. The apparatus of claim 1 further including:
a plurality of sync engines on a respective plurality of systems, each of said plurality of engines being coupled to receive difference information from each of said first, second and plurality of sync engines from the data store via the network, and each said engine interfacing with data on the system on which it resides to update said data on said system on which it resides with said difference information, and interface with data on said system on which it resides to provide difference data information from the system on which it resides to the data store.

B 16 17. (Currently Amended) A system, comprising:
a first device including at least a first data file and first differencing code, the first device having an input and an output coupled to a network to receive first device data change transactions from, and provide change transactions generated by the first differencing code based on said at least one data file to, said network;

a data store coupled to the network having at least one data structure coupled to store change transactions; and

a second [system] device including at least a second data file and second differencing code, the second device having an input and an output coupled to the network to receive said first device data change transactions from, and provide second change transactions generated by the second differencing code based on said at least second data file to, said data store[.];

Sub C 17 wherein each said first and second differencing code includes a sync engine having a data interface, a copy of a previous state of said data, and a difference transaction generator.

¹⁷18. The apparatus of claim ¹⁶17 wherein the first device and second device are coupled to the data store via an Internet connection.

¹⁸19. The apparatus of claim ¹⁶17 wherein the first change transactions are transmitted to the data store by the first device at a first point in time and received from the data store by the second device at a second, subsequent point in time.

¹⁹20. (Currently Amended) The apparatus of claim ¹⁶17 wherein the first differencing code receives second change transactions from the data store [to] and interfaces with at least the first data file [on] to update said data with said second change transactions.

B²⁰21. The apparatus of claim ¹⁶17 further including a management server coupled to the network and in communication with the first sync engine, the second sync engine and the data store.

²¹22. The apparatus of claim ¹⁶17 wherein said management server authorizes access of difference information on the data store by the first and second differencing code.

²²23. The apparatus of claim ¹⁶17 wherein the first device is a sync server.

²³24. The apparatus of claim ¹⁶17 wherein said differencing code comprises:
an application object;
an application object store; and
a delta engine.

[25 - 30. (Cancelled)

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31. (Currently Amended) An Internet synchronization system, comprising:

a storage server having an Internet connection;

a first device coupled to the Internet and including a first device sync engine interfacing with data on the first device [including a difference transaction generator], the first device in communication with at least the storage server; and

a second device coupled to the Internet and including a second device sync engine[.] interfacing with data on the second device, the second device in communication with at least the storage server;

wherein each said device sync engine comprises a data interface, a copy of a previous state of said data, and a difference transaction generator.

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32. The Internet synchronization system of claim 31²⁴ further including:
a management server.

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34. The Internet synchronization system of claim 31²⁴ wherein communications between the first device, the second device and the storage server are encoded and compressed.

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35. The Internet synchronization system of claim 31²⁴ wherein data transfer between the first device, the second device and the storage server comprises difference transactions.

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36. The Internet synchronization system of claim 31²⁴ wherein each device includes applications having data in an application specific format, and wherein communication between the first device, the second device and the storage server include changes to said data in an application independent format .

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The Internet synchronization system of claim 31 wherein each device sync engine comprises:

- an application object;
- an application object store; and
- a delta engine.
